SONY

3-265-723-**12**(1)

# DAB/FM/MW/LW DIGITAL RADIO

Operating Instructions

Digital Audio Broadcasting

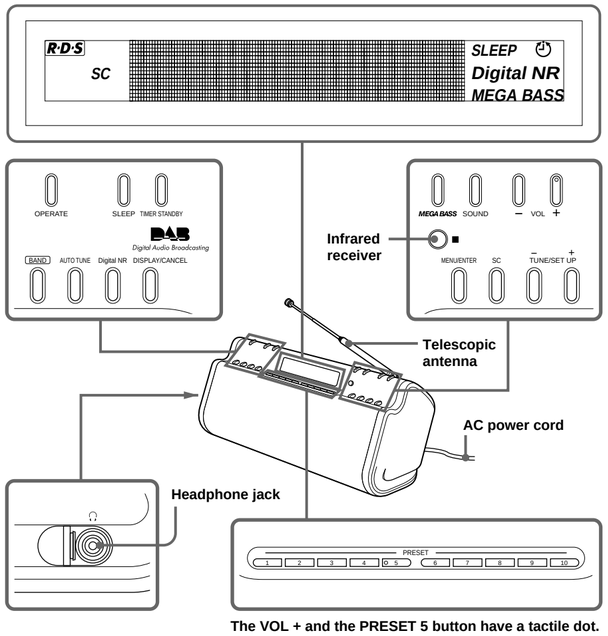
R·D·S

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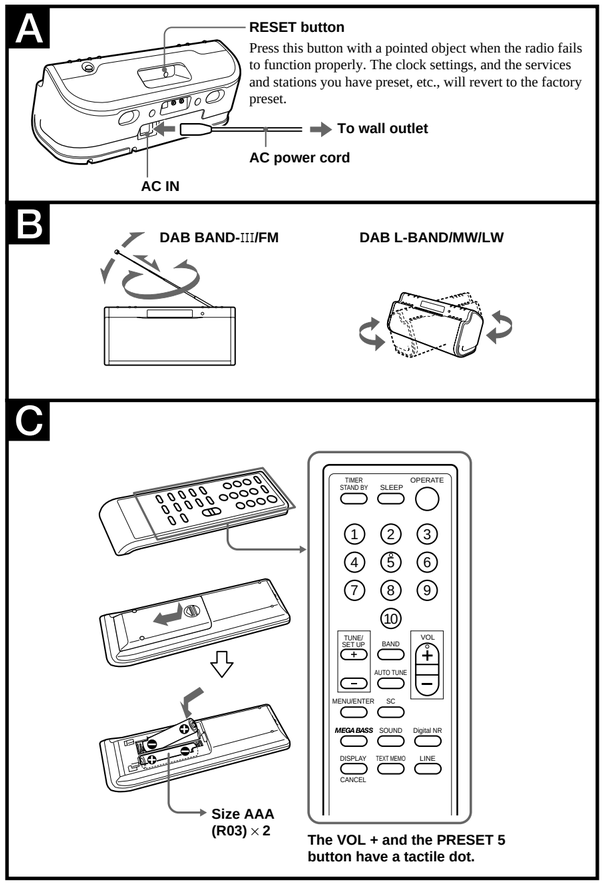
## XDR-S1

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**The VOL + and the PRESET 5 button have a tactile dot.**




## WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**

**To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.**

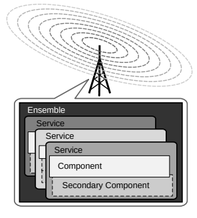
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

## Features

### –What is DAB?

DAB (Digital Audio Broadcasting) is a new multimedia broadcasting system that transmits audio programmes with a quality which approaches CD quality.
Each DAB broadcast multiplex "services" (radio programmes) into an "ensemble" which are then broadcast.
Each service (radio programme) contains "component," which you can select and you wish to listen to. All services and components are identified by name, so you can access any of them without having to know their frequencies.
Furthermore, additional information (called programme associated data) can be broadcast along with the services in the form of text.
DAB programmes are broadcast in Band-III (174 to 240 MHz) and L-Band (1 452 to 1 491 MHz), with each band divided into ensemble (41 in Band-III and 23 in L-Band). These ensemble have its own channel label. For the details of the channel label and its frequency, see "DAB frequency table." One ensemble is broadcast per channel by each DAB station.

**Note**
The status of the DAB broadcast depends on your country or region.




### DAB frequency table

**BAND-III** (MHz)

| No. | Channel | Frequency | No. | Channel | Frequency |
|---|---|---|---|---|---|
| 1 | 5A | 174.928 | 22 | 10B | 211.648 |
| 2 | 5B | 176.640 | 23 | 10C | 213.360 |
| 3 | 5C | 178.352 | 24 | 10D | 215.072 |
| 4 | 5D | 180.064 | 25 | 10N | 210.096 |
| 5 | 6A | 181.936 | 26 | 11A | 216.928 |
| 6 | 6B | 183.648 | 27 | 11B | 218.640 |
| 7 | 6C | 185.360 | 28 | 11C | 220.352 |
| 8 | 6D | 187.072 | 29 | 11D | 222.064 |
| 9 | 7A | 188.928 | 30 | 11N | 217.088 |
| 10 | 7B | 190.640 | 31 | 12A | 223.936 |
| 11 | 7C | 192.352 | 32 | 12B | 225.648 |
| 12 | 7D | 194.064 | 33 | 12C | 227.360 |
| 13 | 8A | 195.936 | 34 | 12D | 229.072 |
| 14 | 8B | 197.648 | 35 | 12N | 224.096 |
| 15 | 8C | 199.360 | 36 | 13A | 230.784 |
| 16 | 8D | 201.072 | 37 | 13B | 232.496 |
| 17 | 9A | 202.928 | 38 | 13C | 234.208 |
| 18 | 9B | 204.640 | 39 | 13D | 235.776 |
| 19 | 9C | 206.352 | 40 | 13E | 237.488 |
| 20 | 9D | 208.064 | 41 | 13F | 239.200 |
| 21 | 10A | 209.936 | | | |

**L-BAND** (MHz)

| No. | Channel | Frequency | No. | Channel | Frequency |
|---|---|---|---|---|---|
| 42 | LA | 1 452.960 | 54 | LM | 1 473.504 |
| 43 | LB | 1 454.672 | 55 | LN | 1 475.216 |
| 44 | LC | 1 456.384 | 56 | LO | 1 476.928 |
| 45 | LD | 1 458.096 | 57 | LP | 1 478.640 |
| 46 | LE | 1 459.808 | 58 | LQ | 1 480.352 |
| 47 | LF | 1 461.520 | 59 | LR | 1 482.064 |
| 48 | LG | 1 463.232 | 60 | LS | 1 483.776 |
| 49 | LH | 1 464.944 | 61 | LT | 1 485.488 |
| 50 | LI | 1 466.656 | 62 | LU | 1 487.200 |
| 51 | LJ | 1 468.368 | 63 | LV | 1 488.912 |
| 52 | LK | 1 470.080 | 64 | LW | 1 490.624 |
| 53 | LL | 1 471.792 | | | |

### DAB Features

| DAB | Features |
|---|---|
| SERVICE/ COMPONENT LABEL DISPLAY | • Displays the service label and the component label you are listening to. |
| PTY | • Displays the program type of the received service. |
| DYNAMIC LABEL | • Displays and scrolls the text of broadcast information.<br>• Memorizes and recalls it. |

### DAB broadcast reception

Receiving DAB broadcast means selecting one service among the multiplex radio programmes into an ensemble, not receiving one frequency such as the current FM/MW broadcasts.
To receive a DAB broadcast in this unit, it is necessary to scan using the DAB search function and to find the available ensemble in advance.
Any broadcast found during the DAB search are stored in the unit.
When tuning the unit to the DAB broadcast, it receives the signal according to the stored information list.

### –What is RDS?

Introduced by the European Broadcasting Union (EBU) in 1987, the Radio Data System (RDS) allows information such as station name, etc., to be received via the 57kHz sub-carrier signal of FM broadcasts. However, the availability of the RDS data varies according to area. It therefore may not always be possible to receive the RDS information.

### RDS Features

| RDS | Features |
|---|---|
| STATION NAME DISPLAY | • Displays the station name you are listening to. |
| PTY | • Displays the program type of the received programme. |
| RADIO TEXT | • Displays and scrolls the radio text of broadcast information.<br>• Memorizes and recalls it. |
| CLOCK AUTO ADJUSTMENT | • Automatic current time synchronization.<br>• Auto adjustment for daylight saving time. |

### Using the RDS Functions

When the unit receives an FM station transmitting RDS data, "R·D·S" appears in the display and the above functions are available. Tune to an FM station by performing "Manual tuning", "Preset tuning", or "Scan tuning", and then perform the above functions as required.

**Notes**
- When RDS data is not received, "R·D·S" will disappear.
- RDS function will not be activated if the FM station being received is not transmitting RDS data. It may also not work properly in areas where RDS transmissions are in the experimental stage.
- If the radio signal being received is weak, it may take time to receive RDS data.

### Other Features

- A total of 40 stations or services can be preset, 10 DAB services and 10 stations each for FM, MW and LW.
- Easy to press 10 **PRESET TUNING** buttons.
- Scan tuning that automatically scans the FM, MW and LW stations in the frequency range.
- Radio standby timer that turns on the radio at a preset time.
- Sleep timer that turns off the radio automatically. (can be set to turn off after 15, 30, 45 or 60 minutes).
- Noise reduction function for FM, MW and LW.
- MEGA BASS sound produces rich, deep bass tones.
- 5 sound characteristics.
- Digital volume function provides for very precise adjustment of volume level.
- Backlight for viewing the display in the dark.
- Adjustable LCD contrast.
- Optical-Line out, Line-in/out terminal. (MD Link)

## Power sources

### Using on house current (See Fig. **A**)

Connect the AC power cord (supplied) to the AC IN jack of the unit and plug it in to a wall outlet.

**Note**
If the AC power cord is disconnected for more than 5 minutes, the settings for the clock, standby timers, any lists of receivable broadcasts for DAB search and preset station memory will be initialized. Should this happen, set the function again.

## Setting the clock

"AM 12:00" will blink in the display when the AC power cord is plugged in for the first time. ("0:00" for non-UK models)

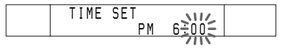
1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "TIME SET" and press MENU/ENTER.




Then the "hour" sign starts blinking.




3 Press TUNE/SETUP +/- to set the hour for the current time, and then press MENU/ENTER.
The "minute" sign starts blinking.




4 Press TUNE/SETUP +/- to set the minute, then press MENU/ENTER.
The clock starts operating, and "':" starts blinking.

**Tips**
- To set the current time rapidly, hold down **TUNE/SETUP +/-**.
- To set the current time exactly to the seconds, adjust the minute function in step **4** and then press **MENU/ENTER** to synchronize it with a time signal (such as the telephone time signal).
- To display the time while the unit is on, press **DISPLAY/CANCEL** a few times. (See "Changing the display".)

**Notes**
- If you do not operate **MENU/ENTER** or **TUNE/SETUP +/-** within 65 seconds while setting the clock, the clock setting mode will be cancelled.
- To cancel the clock setting mode halfway, press **DISPLAY/CANCEL**.
  Pressing the button will terminate the menu mode.
- The clock system varies depending on the model purchased. For example, in the 24-hour system, "0:00" is indicated as midnight, and "12:00" is indicated as noon.

### Setting the Clock Auto Adjustment Function

This function enables the built-in clock of this unit to automatically synchronize with the RDS data being received.

1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "CLOCK AUTO ADJUST" and press MENU/ENTER.




"CLOCK AUTO ADJUST" appears and current setting of "ON" or "OFF" starts blinking.




3 Press TUNE/SETUP +/- to select "ON", then press MENU/ENTER.

RDS data will adjust the clock when the unit receives it.
To turn off this function, select "CLOCK AUTO ADJUST" function and then press **TUNE/SETUP +/-** to select "OFF", then press **MENU/ENTER**.

**Notes**
- This function works only when receiving RDS data.
- If it may not operate depending on the areas, disable this function.
- If this function is being activated while adjusting the clock manually, RDS data will adjust the clock the next time the unit receives it.

## Initial setting for the DAB

DAB Search makes it easy to create a preset list of receivable DAB broadcasts.
When you set up the unit for the first time, or move this unit, adjust the telescopic antenna in the proper position. Then follow the steps below.
DAB search automatically creates a list of receivable broadcasts (from minimum BAND-III frequency to maximum L-BAND frequency).

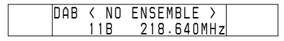
1 Press OPERATE to turn on the radio.
"PUSH AUTO TUNE" appears in the display.
2 Press BAND to select the DAB band.
3 Press AUTO TUNE.
Sound is silent, and "DAB < SEARCHING >" appears in the upper line, and lower line indicated with the square marks will become big from left to right while the scanning.




DAB search takes about 3 minutes. When finished, the unit receives the first service of the lowest ensemble stored by the DAB search.




**Notes**
- If no broadcasts are found by the DAB search, "DAB < NO ENSEMBLE >" and default frequency appear in the display.




And to cancel the DAB search during the receiving broadcasts, press **AUTO TUNE** once.
In both cases, the unit returns to the status same as before the DAB search, and the receiving history list will not be changed.
- When you move this unit, search for the DAB broadcasts again.
- If the AC power cord disconnected for a while, the newest receiving history list is replaced to the initial setting. The initial setting list is as follows.

**United Kingdom:** (MHz)

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 11B | 218.640 | 12B | 225.648 |
| 11C | 220.352 | 12C | 227.360 |
| 11D | 222.064 | 12D | 229.072 |
| 12A | 223.936 | | |

**Other countries/regions:** (MHz)

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 5C | 178.352 | LA | 1452.960 |
| 8B | 197.648 | LB | 1454.672 |
| 8C | 199.360 | LC | 1456.384 |
| 9D | 208.064 | LD | 1458.096 |
| 10B | 211.648 | LE | 1459.808 |
| 10D | 215.072 | LF | 1461.520 |
| 11A | 216.928 | LG | 1463.232 |
| 11B | 218.640 | LH | 1464.944 |
| 11C | 220.352 | LI | 1466.656 |
| 11D | 222.064 | LJ | 1468.368 |
| 12A | 223.936 | LK | 1470.080 |
| 12B | 225.648 | LL | 1471.792 |
| 12C | 227.360 | LM | 1473.504 |
| 12D | 229.072 | LN | 1475.216 |
| 13A | 230.784 | LO | 1476.928 |
| 13B | 232.496 | LP | 1478.640 |
| 13C | 234.208 | | |

## Improving the Reception (See Fig. **B**)

**DAB BAND-III/FM:**
Extend the telescopic antenna and adjust the length and the angle for best reception.
**DAB L-BAND/MW/LW:**
Rotate the unit horizontally for optimum reception.
An antenna is built in the unit.

**Note**
Adjust the direction of the antenna by holding the bottom of it. The antenna can be damaged when you move the antenna with excessive force.



## Operating the Radio

### –Manual tuning

1 Press OPERATE to turn on the radio.
When the unit is turned on again, the last listening band is received.
2 Press BAND repeatedly to select the desired band.
Each press changes the band as follows:

DAB → LW → MW → FM

When you select the DAB band, there are 2 modes of setting. Usually the "NORMAL" setting is used to tune in to a service in the preset list created by the DAB search. Alternatively, you can also search an ensemble by frequency by setting to "MANUAL."

**Normal mode:**
1 Press **MENU/ENTER** to show the menu display.
2 Press **TUNE/SETUP +/-** to select "TUNING MODE" and press **MENU/ENTER**.




"TUNING MODE" appears and current setting of "NORMAL" or "MANUAL" starts blinking.

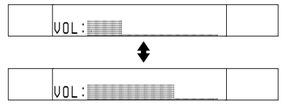



3 Press **TUNE/SETUP +/-** to select "NORMAL", then press **MENU/ENTER**.

**Manual mode:**
1 Repeat step 1 and 2 as Normal mode.
2 Press **TUNE/SETUP +/-** to select "MANUAL", then press **MENU/ENTER**.

3 Press TUNE/SETUP +/- to tune in to the desired service or station.
Two short beeps sound when the lowest ensemble of DAB or the minimum frequency of LW/MW/FM is received during tuning.
4 Adjust the volume using VOL+/-.

**Tip**
You can adjust the volume by 32 steps. The volume increases as the slider is moved towards the right.




**Notes in FM, MW and LW usage**
- When you press **TUNE/SETUP +/-**, the frequency digits change by one step. When you hold down it, the frequency digits change rapidly.
- The channel step is set to 0.05 MHz on FM, 9 kHz on MW, and 3 kHz on LW.
- When you select FM, the name of station will appear if that station transmits RDS data. (See "Changing the display".)

**Notes in DAB usage**
- Before receiving DAB broadcasts, one or more ensembles should be stored on the list by the DAB search. (See "Initial setting for the DAB".)
- "< WAITING >" blinks in the display when the unit is tuned in to an ensemble.
- "< NO SERVICE >" message appears when the selected service is not being broadcast, and "< NO ENSEMBLE >" message appears when the ensemble for the selected service cannot be received.
- You will hear a beep when selecting the first service of the first ensemble in the receiving history list by pressing **TUNE/SETUP +/-**.
- When the selected service finishes during reception, the sound stops and a "< NO SERVICE >" message appears. In this case, press **TUNE/SETUP +/-** to return to the first service of the same ensemble.

***Continue to next page***

## About the SC (Secondary Component)

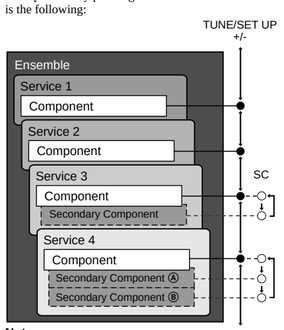
If the selected primary component has the secondary component, "SC" blinks on the display.




Press **SC** so that the desired secondary component is received. And then "SC" appears while receiving the secondary component.




The operation by pressing **TUNE/SETUP +/-** or **SC** is the following:

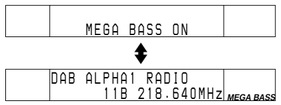



**Note**
When the selected secondary component is finished, the unit returns automatically to the former primary component.

# Other useful functions

## To obtain Powerful Bass Sound

Press **MEGA BASS** while the power is on.
"MEGA BASS ON" appear, then "***MEGA BASS***" appears in the display.

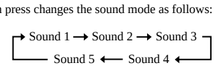



To cancel the MEGA BASS function, press **MEGA BASS** again. "MEGA BASS OFF" appears in the display and "***MEGA BASS***" disappears.

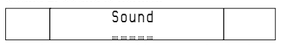



## Selecting Sound Characteristic

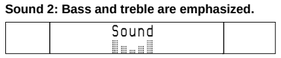
Press **SOUND** repeatedly to select the desired sound mode.
Each press changes the sound mode as follows:



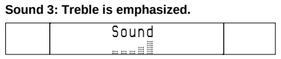

**Sound 1: Sound is normal.**




**Sound 2: Bass and treble are emphasized.**



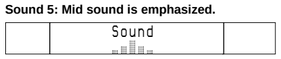

**Sound 3: Treble is emphasized.**




**Sound 4: Bass is emphasized.**

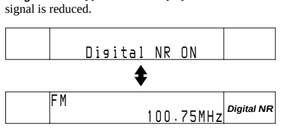



**Sound 5: Mid sound is emphasized.**




## To reduce FM, MW, LW noise

Press **Digital NR** when you hear the FM, MW or LW band. "Digital NR ON" appears, then "***Digital NR***" appears in the display. The noise in the signal is reduced.




To cancel the Digital NR function, press **Digital NR** again. "Digital NR OFF" appears in the display and "***Digital NR***" disappears.

## To listen with headphones (not supplied)

Connect headphones to the ☊ (headphone) jack. The sound through the speaker will not be heard.

# Presetting your favourite stations

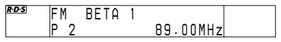
## –Preset tuning

You can preset 10 services in DAB and 10 stations each for FM, MW and LW.

### Presetting the service or station

1 Follow steps 1 to 4 in "Operating the radio" and manually tune in to the service or station you wish to preset.
2 Hold down the PRESET TUNING buttons you wish to preset for more than 2 second.
You will hear two short beeps and the preset number will appear in the display. The selected service or station is stored.

**Example**: Display window when you preset FM 89 MHz with RDS in the **PRESET TUNING** button **2** for FM.




**Upper line** : Station name
**lower line** : Preset number and frequency

The frequency is stored, together with the service label for the DAB broadcast, and the station name for the RDS on FM, if those information are sent.

**Tip**
To preset another service or station, repeat these steps. To change the preset service or station, tune in to the desired service or station and hold down the **PRESET TUNING 1-10** button. The new service or station will replace the previous service or station on the **PRESET TUNING** button.

### Tuning in to a preset service or station

1 Press OPERATE to turn on the radio.
2 Press BAND to select the band.
3 Press the desired PRESET TUNING button.
4 Adjust the volume using VOL+/-.

**Note**
Holding down the desired **PRESET TUNING** button for more than 2 seconds in step **3** will replace the previous service or station on the **PRESET TUNING** button with the new ones you tuned to.

# Scan tuning

The unit will automatically scan FM, MW and LW stations.

1 Press OPERATE to turn on the radio.
2 Press BAND to select the band.
3 Press AUTO TUNE.
Scanning starts from the frequency being tuned in. When a station is received, scanning pauses for 3 seconds and then continues.
4 When the unit tunes in to the desired station, press AUTO TUNE to stop scanning.
5 If necessary, press TUNE/SETUP +/- to tune in to the station more precisely.
6 Adjust the volume using VOL+/-.

# PTY (Programme Type)

This function indicates services or RDS data in each programme type, such as NEWS, SPORTS of the PTY list, transmitted in the DAB or RDS data.

**To display the programme type of the service or station being received**
Press **DISPLAY/CANCEL** a few times. (See "Changing the display".)
If the received service or station does not transmit the programme type, "NO PTY" appears.

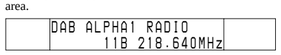
| Programme type | Display |
|---|---|
| Undefined | None |
| News | News |
| Current Affairs | Current Affairs |
| Information | Information |
| Sport | Sport |
| Education | Education |
| Drama | Drama |
| Culture | Cultures |
| Science | Science |
| Varied | Varied Speech |
| Pop Music | Pop Music |
| Rock Music | Rock Music |
| Easy Listening Music | Easy Listening |
| Light Classical | Light Classics M |
| Serious Classical | Serious Classics |
| Other Music | Other Music |
| Weather | Weather & Metr |
| Finance | Finance |
| Children's programmes | Children's Pogs |
| Social Affairs | Social Affairs |
| Religion | Religion |
| Phone In | Phone In |
| Travel | Travel & Touring |
| Leisure | Leisure & Hobby |
| Jazz Music | Jazz Music |
| Country Music | Country Music |
| National Music | National Music |
| Oldies Music | Oldies Music |
| Folk Music | Folk Music |
| Documentary | Documentary |
| Alarm Test | Alarm Test |
| Alarm | Alarm - Alarm! |

# Changing the display

To change the display mode, press **DISPLAY/CANCEL** while the unit is on. Each band has two lines indication areas in the display. Pressing **DISPLAY/CANCEL** changes the lower line indication.
The selected display mode remains even if you turn off the unit or switch the band.

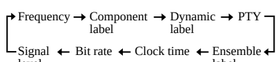
## –DAB broadcasts

The service label (a maximum of 16 characters available) appears in the upper line indication area. The frequency appears in the lower line indication area.




**Upper line** : Service label
**lower line** : Frequency

Each time you press **DISPLAY/CANCEL**, the lower line indication area changes as follows:

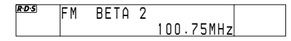



When you change the service, the item in the lower line indication area does not change.
When the unit tunes in to another ensemble, the unit displays its frequency for about 2 seconds, and then displays the item selected by **DISPLAY/CANCEL**.

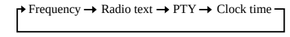
**Notes**
- If there is no service label, only "DAB" appears in the upper line indication area.
- The component label (a maximum of 16 characters available) appears in the lower line indication area. If there is no component label, "< NO LABEL >" message appears.
- The dynamic label (a maximum of 128 characters available) scrolls from right to left. If there is no dynamic label, "< NO TEXT DATA >" message appears.
- Other messages will appear in the following situations:
  – "< NO LABEL >" message appears when there is no ensemble label.
  – "BIT RATE: ---kbps" message appears when there is no information about the bit rate.
  – "SIGNAL LEVEL: ---" message appears when there is no information about the signal level.

## –FM, RDS station

When you receive a station transmitting RDS data including the programme service data, "R·D·S" appears in the display.
The name of the station (a maximum of 8 characters available) appears in the upper line indication area and the frequency appears in the lower line indication area.




Each time you press **DISPLAY/CANCEL**, the lower line indication area changes as follows:




When the unit tunes in to another station, the unit displays its frequency for about 2 seconds, and then displays the item selected by **DISPLAY/CANCEL**.

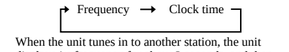
**Notes**
- If there is no station name, only "FM" appears in the upper line indication area.
- The radio text (a maximum of 64 characters available) scrolls from right to left in the lower line indication area. If there is no radio text, "< NO TEXT DATA >" message appears.

## –MW, LW station

"MW" or "LW" appears in the upper line indication area.




Each time you press **DISPLAY/CANCEL**, the lower line indication area changes as follows:




When the unit tunes in to another station, the unit displays its frequency for about 2 seconds, and then displays the item selected by **DISPLAY/CANCEL**.

### To adjust the LCD contrast

You can adjust the display at 17 different contrast levels.

1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "CONTRAST". Press MENU/ENTER.




* The number for a menu item differs depending on the received band.
"CONTRAST" and square block appear on the display. The contrast becomes to weak when square block is moved to the left, and becomes to strong when moving it right.



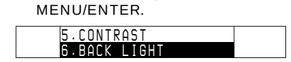

3 Press TUNE/SETUP +/- to set the contrast of the display, then press MENU/ENTER once.

**Notes**
- If you do not operate within 65 seconds while setting the contrast, the setting mode will be cancelled.
- To cancel the setting mode halfway, press **DISPLAY/CANCEL**.

### To adjust the backlight

The backlight is on during the unit is turned on. You can set the display at the 3 different brightness levels. Even if the unit is turned off, the backlight lights on for 30 seconds by touching any key.

1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "BACK LIGHT" and press MENU/ENTER.




* The number for a menu item differs depending on the received band.
The "BACK LIGHT" message appears and current setting ("HIGH", "MID" or "LOW") blinks on the display.




3 Press TUNE/SETUP +/- to set "HIGH", "MID" or "LOW", then press MENU/ENTER once.

**Notes**
- If you do not operate within 65 seconds while setting the backlight, the setting mode will be cancelled.
- To cancel the setting mode halfway, press **DISPLAY/CANCEL**.

# Text memo function

You can store a maximum of 10 patterns of DAB's dynamic labels or RDS's radio text.
DAB's dynamic label receives a data of 128 characters maximum. FM/RDS radio text can 64 characters maximum.

### To store the text

1 Press DISPLAY/CANCEL to indicate the dynamic label or radio text when receiving a DAB or FM/RDS station.
2 Press MENU/ENTER to show the menu display.
3 Press TUNE/SETUP +/- to select "SAVE TEXT", and then press MENU/ENTER.




The text displayed will be stored.

**Notes**
- The latest stored data is named "NO.1".
- If there are already 10 stored data entries, and then you try to store another new data, the oldest data (No.10) will be erased.

### To recall the stored text

1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "RECALL TEXT", and then press MENU/ENTER.



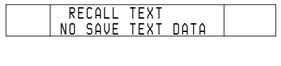

The stored text is displayed from newest (NO.1) to oldest (NO.10).




3 Press TUNE/SETUP +/- to select the desired text, and then press MENU/ENTER.
The selected text is displayed by scrolling.

To return to the former display, press **DISPLAY/CANCEL** once.

**Note**
If there is no stored text, "NO SAVE TEXT DATA" appears in the display.




# Setting the Standby Timer

You can set the unit to turn on automatically at a preset time.
To adjust the hour and minute with **TUNE/SETUP +/-**, see "Setting the clock".

1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "STANDBY TIMER SET" and press MENU/ENTER.




The "hour" sign starts blinking.




3 Press TUNE/SETUP +/- to set the hour in the standby timer, and then press MENU/ENTER.
The "minute" sign starts blinking.
4 Press TUNE/SETUP +/- to set the minutes in the standby timer, and then press MENU/ENTER.
The preset time appears for 2 seconds and "⏲" appears. The timer function is activated.
5 Press OPERATE to turn off the radio.

When the unit turns on at the preset time, "***SLEEP***" appears, the unit will automatically turn off after 60 minutes.
Once you set the standby timer, the unit turns on at the preset time everyday.

**Notes**
- If you do not operate **TUNE/SETUP +/-** within 65 seconds while setting the standby timer, the setting mode will be cancelled.
- To cancel the setting mode halfway, press **DISPLAY/CANCEL**.
- If the unit has already turned on, the standby timer will not be activated.

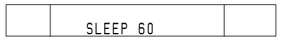
### To deactivate the Standby Timer

Press **TIMER STANDBY** so that "⏲" disappears and "STANDBY TIMER OFF" appears in the display.
To activate the standby timer, press **TIMER STANDBY** again so that "⏲" appears.

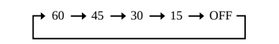
# Setting the Sleep Timer

You can enjoy falling asleep to the radio using the built-in sleep timer that turns off the radio automatically after a preset duration.

1 Press SLEEP.
"SLEEP" and the digits for the sleep timer duration appear.




If you press **SLEEP** while the unit is turned off, the unit is turned on.
2 Press SLEEP repeatedly to select the desired sleep timer setting.
Each press changes the setting time as follows:




Two short beep sounds when the display returns to "SLEEP 60".
After about 3 seconds, "***SLEEP***" appears in the display when the duration time is set.
The unit automatically turns off when the duration time is passed.

### To change the Sleep Timer setting

Press **SLEEP** repeatedly to select the desired sleep timer setting even after the sleep timer has been activated.

### To deactivate the Sleep Timer

Press **OPERATE** to turn off the unit before the setting time has elapsed, or press **SLEEP** repeatedly to set the sleep timer to "SLEEP OFF" in step **2**.
"***SLEEP***" disappears from the display.

## To use both Sleep Timer and Standby Timer

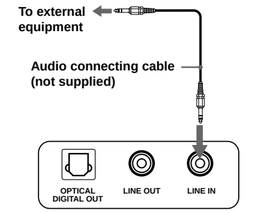
You can fall asleep to the radio and also be awakened by the radio at the preset time.

1 Set the Standby Timer. (See "Setting the Standby Timer".)
2 Set the sleep timer. (See "Setting the Sleep Timer".)

# Connecting External Equipment

## To listen to sound

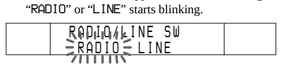
1 Connect the LINE IN jack of the unit to the line output jack or headphones jack of other equipment using the audio connecting cable (not supplied).




2 Press MENU/ENTER to show the menu display.
3 Press TUNE/SETUP +/- to select "RADIO/LINE SW", and then press MENU/ENTER.




"RADIO/LINE SW" appears and current setting of "RADIO" or "LINE" starts blinking.




4 Press TUNE/SETUP +/- to select "LINE", then press MENU/ENTER.
5 Play the equipment connected to the LINE IN jack.

## To return to the radio

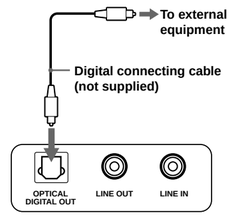
1 Press MENU/ENTER to show the menu display.
2 Press TUNE/SETUP +/- to select "RADIO/LINE SW", and then press MENU/ENTER.
"RADIO/LINE SW" appears and current setting of "RADIO" or "LINE" starts blinking.
3 Press TUNE/SETUP +/- to select "RADIO", then press MENU/ENTER.

**Tip**
To return to the radio, you can press **BAND** alternatively.

## To record with the optical digital out

This function is available for DAB service only.

1 Open the jack cover of the OPTICAL DIGITAL OUT jack of the unit and connect the digital connecting cable (not supplied) into the digital input jack of the digital recording equipment.




2 Turn on the unit and the connected equipment.
3 Tune the unit to the DAB service that you want to record.
4 Start to record on the connected equipment.

**Note**
To record the broadcasting on a connected analogue recorder, use the LINE OUT jack of the unit.

# Using the Remote

You can play the radio using the remote.
Use the remote in the right direction to the receiver of the unit.

| To | Press |
|---|---|
| Listen to the sound of connected equipment | **LINE**<br>Press **LINE** to listen to the sound of connected equipment. |
| Store text | **TEXT MEMO**<br>Press **TEXT MEMO** to store the DAB's dynamic labels or RDS radio text. |

All other functions are shared on both the remote and the unit.

### Installing the batteries into the remote (See Fig. C)

Insert two size AAA (R03) batteries (not supplied).

**When to replace the batteries**
When the remote no longer operates the digital radio, replace all the batteries with new ones.

**Notes**
- Do not charge the dry batteries.
- When you are not going to use the remote for a long time, remove the batteries to avoid any damage caused by leakage and corrosion.

# Precautions

- Operate the unit on the power sources specified in "Specifications".
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- To disconnect the power cord (mains lead), pull it out by the plug, not the cord.
- The nameplate indicating operating voltage, power consumption, etc. is located on the bottom exterior.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock. Never leave in a car parked under the sun.
- Should any solid object or liquid fall into the unit, unplug the unit and have it checked by a qualified personnel before operating it any further.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that block the ventilation holes.
- Use the unit within a temperature range of 0°C to 40°C (32°F to 104°F). If it is used in temperatures higher than this range, numbers may appear in the display which have nothing to do with the frequency being received. If it is used in temperatures lower than this range, the numbers displayed may change very slowly. (These irregularities will disappear and there will be no damage to the unit when the unit is used in the recommended temperature range.)
- In vehicles or buildings, radio reception may be difficult or noisy. Try listening near a window.
- Since a strong magnet is used for the speakers, keep away personal credit cards using magnetic coding or spring-wound watches from the unit to prevent possible damage from the magnet.
- To clean the casing, use a soft cloth dampened with a mild detergent solution.

**If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.**

# Troubleshooting

Should any problem persist after you have made the following checks, consult your nearest Sony dealer.

**Display is dim, or no indication is displayed.**
- The unit is being used in extremely high or low temperatures or in a place with excessive moisture.

**Very weak or interrupted sound, or unsatisfactory reception.**
- In a building, listen near a window.

**A station or service cannot be received when a PRESET TUNING button is pressed.**
- The station or service has not been preset.
- Another station or service is preset. Preset the station or service again.

The preset services and stations may be initialized, if a maintenance service is performed.
Please keep a copy of your settings in case you want to preset them again.

# Specifications

**Time display**

| | |
|---|---|
| UK | 12-hour system |
| Other countries/regions | 24-hour system |

**Frequency range**

| Band | Frequency | Channel step |
|---|---|---|
| DAB(L-Band) | 1452.960 - 1490.624 MHz | |
| DAB(Band-III) | 174.928 - 239.200 MHz | |
| FM | 87.5 - 108 MHz | 0.05 MHz |
| MW | 531 - 1 602 kHz | 9 kHz |
| LW | 153 - 279 kHz | 3 kHz |

**Speaker:**
8 cm (3 1/4 inches) dia., 3.2 Ω
**Power output:**
2.3 W + 2.3 W (at 10% harmonic distortion)
**Output:**
Headphone jack (stereo mini jack)
**Power requirements:**
230 V AC, 50Hz
**Power consumption:**
13W
**Dimensions:**
Approx. 320 × 142 × 154 mm (w/h/d)
(Approx. 12 1/4 × 5 5/8 × 6 1/8 inches) incl. projecting parts and controls
**Mass:**
Approx. 2.5 kg (5 lb 8 oz)
**Supplied accessories:**
AC power cord (1), Remote control (1)

Design and specifications are subject to change without notice.